DATE: December 15, 1999

ADE & COMPANY

1700-360 Main Street
Winnipeg, Manitoba
Canada R3C 3Z3

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09/461225 09/461225 09/461225

BOX PATENT APPLICATION

THE COMMISSIONER OF PATENTS AND TRADEMARKS

WASHINGTON DC 20231

SIR:

Transmitted herewith for filing is the patent application of:

Inventor:

ALLEN G. JAMES

For:

PORTABLE CALF STRETCHER

Enclosed are:

X Declaration and Power of Attorney

X Declaration Claiming Small Entity for Independent Inventor Status

X Declaration Claiming Small Entity for Non-Inventor

X 2 Sheets of Drawings

X An Assignment of one-half of the invention to Donald Campbell (1/2)

X Assignment Cover Sheet

X Priority claim: US provisional application/patent - filed December 17, 1998

| CLAIMS AS FILED | | | | | | | |
|-----------------------|------------------|------------------|----------|-------------------------|--|--|--|
| (1) FOR | (2) NUMBER FILED | (3) NUMBER EXTRA | (4) RATE | (5) BASIC FEE \$ 380 | | | |
| TOTAL CLAIMS | 9 - 20 = | 0 | X \$ 9 | Ś | | | |
| INDEPENDENT CLAIMS | 2 - 3 = | 0 | X \$ 39 | \$ | | | |
| TOTAL FILING F | \$ 380 | | | | | | |
| ASSIGNMENT RE | \$ 40 | | | | | | |

Please charge Deposit Account No. 01-0310 in the amount of . A duplicate copy of this sheet is enclosed.

X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Account No. 01-0310.

X A Money Order in the amount of \$380 to cover the filing fee is enclosed.

X A Money Order in the amount of \$40 is enclosed to cover assignment registration fee

X Form PTO 1449 Information Disclosure Citation is enclosed.

ADRIAN D. BATTISON Registration No. 31,72

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VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY Docket No. STATUS (37 CFR 1.9(f) AND 1.27 (b)) - INDEPENDENT INVENTOR 84594-102/MET Serial No. Filing Date Patent No. Issue Date **ALLEN G. JAMES** Applicant/ Patentee: Invention: PORTABLE CALF STRETCHER As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled above and described in: M the specification to be filed herewith. the application identified above. the patent identified above. I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below: No such person, concern or organization exists. ☑ Each such person, concern or organization is listed below. *NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities (37 CFR 1.27) FULL NAME DONALD CAMPBELL **ADDRESS** 8 CRANBROOK BAY, WINNIPEG, MANITOBA, CANADA R2C 0N9 Small Business Concern Nonprofit Organization **FULL NAME ADDRESS** Individual Small Business Concern Nonprofit Organization **FULL NAME ADDRESS** Individual Small Business Concern Nonprofit Organization **FULL NAME ADDRESS**

Small Business Concern

Individual

Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

| NAME OF INVENTOR ALLEI | N G. JAMES | | |
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| SIGNATURE OF INVENTOR | allowed James | DATE: | Dec 14 1859 |
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VERIFIED STATEMENT BY A NON-INVENTOR SUPPORTING A CLAIM BY ANOTHER FOR SMALL ENTITY STATUS

Docket No. 84594-172/MET

| A C | A CLAIM BY ANOTHER FOR SMALL ENTITY STATUS | | | | | | | |
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| Serial No |). | Filing D | ate | Patent N | lo. | Issue Date | | |
| Applicant/ ALL! Patentee: | EN G. JAM | ŒS | | | | | | |
| Invention: POF | TABLE C. | ALF STRETCHE | 2 | | | | | |
| ALLEN G. JAMES | 3 | | | nent to support a claim by | | • | | |
| for small entity sta the invention desc | | poses of paying r | educe | d fees to the United States | Patent and Tr | ademark Office, regarding | | |
| 🖄 the | specificatio | n filed herewith w | ith title | as listed above. | | | | |
| ☐ the a | application | identified above. | | | | | | |
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| | | | | dent inventor as defined in the ce, if I had made the above | | | | |
| convey or license CFR 1.9(c) if that concern under 37 | , any rights t person h CFR 1.9(c ch person, | s in the invention to ad made the inve d) or a nonprofit of | o any _l ention, rganiza | and am under no obligation berson who would not quale or to any concern which ation under 37 CFR 1.9(e). In having rights to the investigation of the invest | lify as an inder would not qu Note: Separa | pendent inventor under 37 alify as a small business ate verified statements are | | |
| Each person, cor obligation under c | ncern or o ontract or l | rganization to wh aw to assign, grar | nich I i nt, conv | nave assigned, granted, ovey, or license any rights in | conveyed, or to the invention | icensed or am under an is listed below: | | |
| ⊠ nos | uch person | , concern, or orga | nizatio | n exists. | | | | |
| ☐ each | such pers | on, concern or org | ganizat | ion is listed below. | | | | |
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| ADDITESS | | ndividual | | Small Business Concern | | Nonprofit Organization | | |
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| | ☐ Ir | ndividual | | Small Business Concern | | Nonprofit Organization | | |

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made_on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

| NAME OF PERSON SIGNING: | DONALD CAMPBELL | | | |
|----------------------------|---|--|--|--|
| TITLE IN ORGANIZATION: | | | | |
| ADDRESS OF PERSON SIGNING: | 8 CRANBROOK BAY, WINNIPEG, MANITOBA, CANADA | | | |

SIGNATURE: DATE: D

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PORTABLE CALF STRETCHER

FIELD OF THE INVENTION

This invention relates to a stretching device and more particularly to a portable calf stretcher for stretching calf muscles of a person.

5 BACKGROUND

When a person performs activities that require extensive use of their legs such as running, it is often desirable to stretch the leg muscles to avoid injury or to increase flexibility. The calf muscles in particular are difficult to isolate without the aid of a wall or similar structure to lean against. The use of various supports and devices are known for isolating the calf muscles, however these devices are generally awkward in shape and size such that they are not suitable to be carried while running.

US Patent 4,693,470 to Ogawa describes a device for use in stretching the Achilles' tendon and calf muscles of a person. A support base pivotally mounts a flat treading base thereon. An angle adjusting member supports the treading base on the support base at various angles therebetween. A person places their feet on the treading base and leans forward to perform stretching exercises of the lower leg. The device however is large and awkward in size such that it is not easily carried by an athlete while performing a running exercise. The angle adjusting member requires removal in order collapse the device for storage which further makes the device too awkward and bulky for an athlete to carry while running.

SUMMARY

According to one aspect of the present invention there is provided a portable stretching device for stretching calf muscles of a person, the device comprising:

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a base member arranged to be supported on a supporting surface; a foot plate suitably sized to support a single foot of the person thereon, the foot plate being pivotally mounted at a first end on the base member such that the foot plate is pivotal through a range of angles relative to the supporting surface; and

an adjustable support pivotally mounted on the base member, the support being pivotal between a stretching position wherein the support engages the foot plate such that the foot plate is supported above the base member at a fixed angle therebetween within the range of angles and a storage position wherein the foot plate is oriented substantially flat adjacent the base member.

The portable calf stretcher is arranged to support a person's foot thereon at an upward incline such that the person's foot does not flex for isolating the person's calf muscles when the person leans forwards. The small size of the foot plate and pivotal coupling of the adjustable support allow the stretcher to be compactly stored for easily carrying the stretcher while running or exercising.

Preferably the first end of the foot plate is pivotally mounted on a corresponding first end of the base member, the foot plate and base member each comprising a substantially rectangular plate.

The adjustable support preferably comprises a rectangular plate member which is pivotally mounted on the base such that a free end of the plate member engages a bottom face of the foot plate at various locations, each corresponding to a fixed angle between the foot plate and the base member.

A plurality of stops may be mounted on the bottom face of the foot plate for engaging the free end of the adjustable support.

The adjustable support may be pivotally mounted on a second end of the base member opposite a first end mounting the foot plate thereon.

There may be provided a gripping member mounted on an upper face of the foot plate for gripping the foot of the person. Accordingly there may be provided a gripping member mounted on bottom face of the base member for engaging the

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supporting surface.

The adjustable support and the foot plate are preferably mounted on opposing ends of the base member wherein a combined length of the adjustable support and the base member is substantially equal to a length of the foot plate such that the adjustable support and the base member form a substantially flat and rectangular shape with the foot plate when collapsed in the storage position.

According to a further aspect of the present invention there is provided a portable stretching device for stretching calf muscles of a person, the device comprising:

a base member arranged to be supported on a supporting surface, the base member being substantially rectangular and having respective first and second ends:

a foot plate which substantially rectangular in shape and suitably sized to support a single foot of the person on an upper face of the plate, the foot plate being pivotally mounted at a coupled end on the first end of the base member such that the foot plate is pivotal through a range of angles relative to the base member;

and an adjustable support pivotally mounted at a coupled end on the second end of the base member, the support being pivotal between a stretching position wherein a free end of the support engages a bottom face of the foot plate such that the foot plate is supported above the base member at a fixed angle therebetween within the range of angles and a storage position wherein the foot plate and the adjustable support extending therefrom are oriented substantially flat adjacent the base member such that a combined length of the adjustable support and the base member is substantially equal to a length of the foot plate.

BRIEF DESCRIPTION OF THE DRAWINGS

In the accompanying drawings, which illustrate an exemplary

embodiment of the present invention:

Figure 1 is an isometric view of the portable calf stretcher showing a side and a rear of the device in a first stretching position.

Figure 2 is an isometric view of the portable calf stretcher showing a top and a side of the stretcher in a storage position.

Figure 3 is a side elevational view of the stretcher in the first stretching position.

Figure 4 is a side elevational view of the stretcher in a second stretching position.

10 **DETAILED DESCRIPTION**

Referring to the accompanying drawings, there is illustrated a calf stretcher generally indicated by the reference numeral 10. The calf stretcher 10 is a portable and collapsible device that can be carried by a person when jogging and easily assembled on any supporting surface for stretching the person's calf muscles.

The stretcher 10 includes a foot plate 12, a base plate 14 and an adjustable supporting plate 16. The foot plate 12 is a thin, flat plate appropriately sized to support a single foot 18 thereon being approximately twelve inches long and four inches wide such that an average size foot may be supported. A first hinge 20 is mounted along a heel end 22 of the foot plate 12.

The base plate 14 is equal in width to the foot plate and shorter in length. The base plate 14 is mounted on the first hinge 20 such that a first end 24 of the base plate is adjacent the heel end 22 of the foot plate. The base plate is pivotal in relation to the foot plate about the first hinge 20. The foot plate is thus pivotal through a range of angles relative to a supporting surface when the base plate is supported on the supporting surface. A second hinge 26 is mounted along a second end 28 of the base plate opposite the first end 24.

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The supporting plate 16 is equal in width to and shorter in length than the base plate 14. The supporting plate 16 is mounted on the second hinge 26 such that a pivotal end 30 of the supporting plate is adjacent the second end 28 of the base plate. The supporting plate is pivotal in relation to the base plate about the second hinge 20.

The length of the supporting plate 16 and the base plate 14 combined is equal in length to the foot plate 12 such that the device may be folded into a portable position as shown in Figure 2. The plates are all rectangular such that they form a substantially rectangular shape for storage in the portable position of Figure 2. In the portable position an inner face 32 of the base plate lies adjacent to a bottom face 34 of the foot plate. The supporting plate extends from the base plate such that an inner face 36 of the supporting plate also lies adjacent to the bottom face 34 of the foot plate.

In use the free end 38 of the supporting plate 16 is arranged to engage the bottom face 34 of the foot plate 12 such that the foot plate 12, the base plate 14 and the supporting plate 16 form a triangular arrangement.

The bottom face 34 of the foot plate 12 includes a pair of first lugs 40 and a pair of second lugs 42, each pair of lugs corresponding to a fixed angle between the foot plate and the base plate when the free end of the supporting plate is engaged thereon as shown in Figures 3 and 4 respectively. The pairs of lugs are spaced apart such that the first lugs 40 are positioned near a toe end 43 of the foot plate and the second lugs are spaced therefrom towards the heel end 22. The lugs 40 and 42 are fixed to the bottom face for engaging the free end of the supporting plate for positioning the foot plate as desired.

A first stretching position is shown in Figure 3 wherein the free end 38 of the supporting plate engages the first lugs 40. With the base plate supported on a

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supporting surface, a person places their foot on the foot plate with their heel planted on the heel end and urges their leg upright and forwards such that their calf muscles are stretched. The foot plate remains flat such that the person's foot does not flex for isolating the calf muscles only.

A second stretching position is shown in Figure 4 wherein the free end 38 of the supporting plate engages the second lugs 42. In the second stretching position, the base plate is supported on a supporting surface similarly to the first stretching position such that the foot plate extends upwards at a greater incline than the first stretching position. The second stretching position provides a more aggressive stretch for stretching once the person's muscles have already been warmed up and loosened.

The device is thus adjustable between the first and second stretching positions in use and collapsible into the portable position when not in use. In the portable position the device is small and lightweight such that it can be carried by a person while they are jogging or performing some similar exercise.

A rectangular sheet of gripping material 50 is mounted on the respective outer faces of both the base plate and the foot plate for gripping the supporting surface and the foot of the person respectively. The gripping material is a conventional rubber type sheet which is secured to respective plates by conventional means.

While one embodiment of the present invention has been described in the foregoing, it is to be understood that other embodiments are possible within the scope of the invention. The invention is to be considered limited solely by the scope of the appended claims.

CLAIMS

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1. A portable stretching device for stretching calf muscles of a person, the device comprising:

a base member arranged to be supported on a supporting surface;

a foot plate suitably sized to support a single foot of the person thereon, the foot plate being pivotally mounted at a first end on the base member such that the foot plate is pivotal through a range of angles relative to the supporting surface; and

an adjustable support pivotally mounted on the base member, the support being pivotal between a stretching position wherein the support engages the foot plate such that the foot plate is supported above the base member at a fixed angle therebetween within the range of angles and a storage position wherein the foot plate is oriented substantially flat adjacent the base member.

- 2. The device according to claim 1 wherein the first end of the foot plate is pivotally mounted on a corresponding first end of the base member, the foot plate and base member each comprising a substantially rectangular plate.
- 3. The device according to claim 1 wherein the adjustable support comprises a rectangular plate member which is pivotally mounted on the base such that a free end of the plate member engages a bottom face of the foot plate at various locations, each corresponding to a fixed angle between the foot plate and the base member.
- 4. The device according to claim 3 wherein there is provided a plurality of stops mounted on the bottom face of the foot plate for engaging the free end of the adjustable support.
- 5. The device according to claim 3 wherein the adjustable support is pivotally mounted on a second end of the base member opposite a first end mounting the foot plate thereon.

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- 6. The device according to claim 1 wherein there is provided a gripping member mounted on an upper face of the foot plate for gripping the foot of the person.
- 7. The device according to claim 1 wherein there is provided a gripping member mounted on bottom face of the base member for engaging the supporting surface.
- 8. The device according to claim 1 wherein the adjustable support and the foot plate are mounted on opposing ends of the base member, a combined length of the adjustable support and the base member being substantially equal to a length of the foot plate such that the adjustable support and the base member form a substantially flat and rectangular shape with the foot plate when collapsed in the storage position.
- 9. A portable stretching device for stretching calf muscles of a person, the device comprising:

a base member arranged to be supported on a supporting surface, the base member being substantially rectangular and having respective first and second ends;

a foot plate which substantially rectangular in shape and suitably sized to support a single foot of the person on an upper face of the plate, the foot plate being pivotally mounted at a coupled end on the first end of the base member such that the foot plate is pivotal through a range of angles relative to the base member;

and an adjustable support pivotally mounted at a coupled end on the second end of the base member, the support being pivotal between a stretching position wherein a free end of the support engages a bottom face of the foot plate such that the foot plate is supported above the base member at a fixed angle therebetween within the range of angles and a storage position wherein the foot plate and the adjustable support extending therefrom are oriented substantially flat adjacent

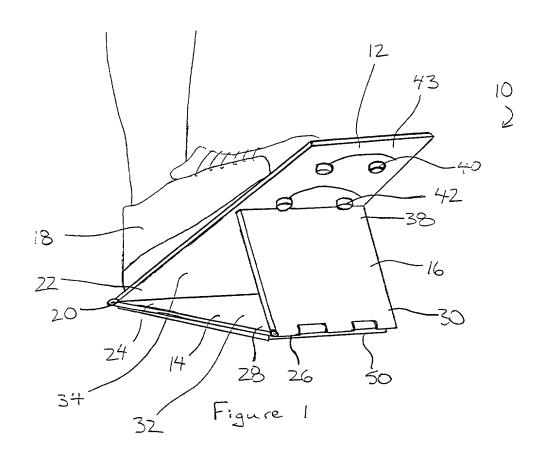
the base member such that a combined length of the adjustable support and the base member is substantially equal to a length of the foot plate.

ABSTRACT

A portable calf stretcher is provided having a base plate which is arranged to be supported on the ground. A foot plate and an adjustable support plate are pivotally mounted on opposing ends of the base plate. The adjustable support plate is arranged to support the foot plate above the base plate at any one of numerous fixed angles therebetween. A person positions one foot on the foot plate and leans forward for isolating and stretching the corresponding calf muscle. The foot plate is pivoted flat against the base plate in a storage position.

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ALLEN G. JAMES THRIFT/84594-102 SHEET 1 OF 2



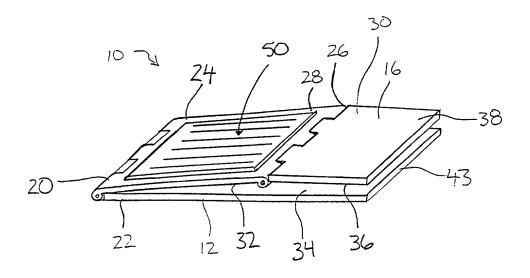
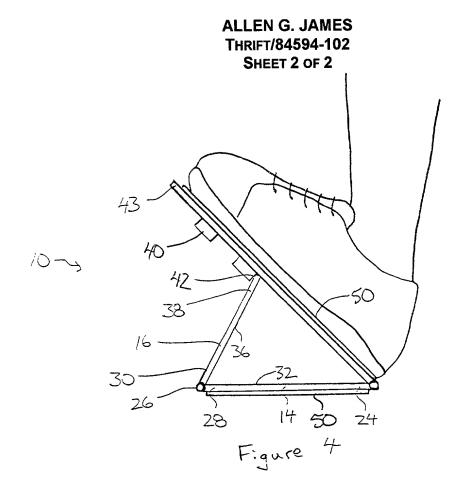


Figure Z



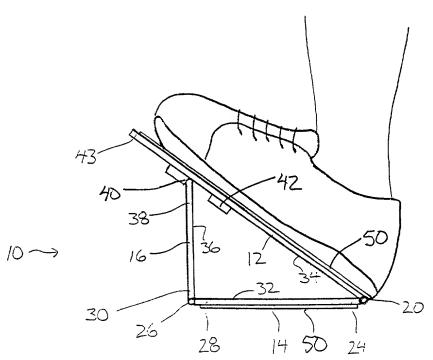


Figure 3

Docket No. 84594-102/MET

Declaration and Power of Attorney For Patent Application English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

| | I believe I am the original, fir first and joint inventor (if plu which a patent is sought on | ral names are listed bel | only one name is listed below ow) of the subject matter wh | w) or an original, nich is claimed and for | | | | |
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| | PORTABLE CALF STRETCH | ER | | | | | | |
| | the specification of which | | | | | | | |
| | (check one) | | | | | | | |
| | ☑ is attached hereto. | | | | | | | |
| Jan Barrell | ☐ was filed on | as U | Inited States Application No. | or PCT International | | | | |
| | | | | | | | | |
| | and was amended on | | | | | | | |
| ji. | | | (if applicable) | | | | | |
| | • | I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. | | | | | | |
| High High High | I acknowledge the duty to a known to me to be material Section 1.56. | | | | | | | |
| | Section 365(b) of any forei any PCT International app States, listed below and ha | gn application(s) for pa dication which designation we also identified below the or PCT International | e 35, United States Code, atent or inventor's certificate at least one country of the box, any application having a filing of | , or Section 365(a) of other than the United foreign application for | | | | |
| | Prior Foreign Application(s) | | Priority Not Claimed | | | | | |
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| | (Number) | (Country) | (Day/Month/Year Filed) | | | | | |

| I | hereby | claim | the | benefit | under | 35 | U.S.C. | Section | 119(e) | of | any | United | States | provisional |
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| а | pplicatio | n(s) lis | ted b | elow: | | | | | | | | | | |

| 60/112,768 | December 17, 1998 | | |
|--------------------------|-------------------|--|--|
| (Application Serial No.) | (Filing Date) | | |
| (Application Serial No.) | (Filing Date) | | |
| (Application Serial No.) | (Filing Date) | | |

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

| (Application Serial No.) | (Filing Date) | (Status) | | |
|--------------------------|----------------|---|--|--|
| (Application ochai No.) | (i illig bate) | (patented, pending, abandoned) | | |
| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, abandoned) | | |
| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, abandoned) | | |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

MURRAY E. THRIFT ADRIAN D. BATTISON

Reg. No. 27,527 Reg. No. 31,726

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MURRAY E. THRIFT 204-957-8363

| | Full name of sole or first inventor ALLEN G. JAMES | 10 1069 |
|---|--|---------|
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| | Citizenship | |
| | CANADIAN | |
| _ | Post Office Address | |
| | 604 - 22 BELIVEAU ROAD, WINNIPEG, MANITOBA, CANADA R2M 1S5 | |
| - | Total Value 25, Mini Toda, Canada Rem 155 | |
| | | |
| | | |

| Full name of second inventor, if any | |
|--------------------------------------|------|
| Second inventor's signature | Date |
| Residence | |
| Citizenship | |
| Post Office Address | |
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